

## SCAVENGER HUNT #2

1. What digit (numbers 0-9) is the most frequent between the numbers 1 and 1,000 (inclusive)? What about the least frequent?  
*Hint: Find a pattern.*
2. Mr. Madison has 14 fruit trees. He has 1 apricot tree and 1 pear tree, and the rest are divided evenly among apple, peach, and plum trees. Last Thursday, Mr. Madison picked 6 apples from each apple tree, 10 plums from each plum tree, 3 peaches from each peach tree, and 4 pears from the pear tree. How many pieces of fruit did he pick last Thursday?
3. An insurance salesman walk up to house and knocks on the door. A woman answers, and he asks her how many children she has and how old they are. She says I will give you a hint. If you multiply the 3 children's ages, you get 36. He says this is not enough information. So she gives a him 2nd hint. If you add up the children's ages, the sum is the number on the house next door. He goes next door and looks at the house number and says this is still not enough information. So she says she'll give him one last hint which is that her oldest of the children is a girl.  
*Hint: Why would he need to go back to get the last hint after seeing the number on the house next door?*
4. If  $9999 = 4$ ,  $8888 = 8$ ,  $1816 = 6$ ,  $1212 = 0$ , then  $1919 = ?$
5. An athlete is able to jump FOREVER. However, every time that she jumps she gets a bit more tired, and every jump goes  $\frac{1}{2}$  as far as her prior jump. Now, for her very first jump, she goes  $\frac{1}{2}$  of a foot. On her second jump, she goes  $\frac{1}{4}$  of a foot, and so on and so forth. How many jumps does it take for her to travel 1 foot?
6. Can you arrange 7 trees so that there are 6 rows of 3 trees? It is entirely possible.
7. How many times do the hands of a clock overlap in 24 hours?
8. Arrange the numbers 1 through 9 on a tic tac toe board such that the numbers in each row, column, and diagonal add up to 15.
9. Can you place six X's on a tic tac toe board without making three in a row in any direction?

<b>5 +</b>		<b>8 x</b>	
<b>2 ÷</b>	<b>2 -</b>	<b>9 +</b>	
			<b>2 -</b>
<b>4 x</b>			

<b>2 ÷</b>		<b>3 x</b>	
<b>8 +</b>			<b>4</b>
<b>3 -</b>		<b>4</b>	<b>6 x</b>
	<b>2 ÷</b>		

<b>6 x</b>		<b>1 -</b>	
	<b>3 -</b>		<b>2</b>
<b>3 -</b>	<b>2 ÷</b>		<b>6 +</b>
	<b>3</b>		

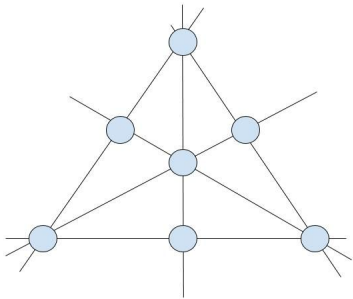
<b>6 +</b>			<b>7 +</b>
<b>9 +</b>	<b>8 x</b>		
		<b>4 +</b>	
	<b>1 -</b>		

1-		3-	
3-	6×		2÷
	4+		
2÷		4+	

## ANSWERS

1. Most Frequent: 1, Least Frequent: 0
2. 80
3. Ages: 2, 2, 9
4. 4
5. She never actually reaches exactly a foot!

6.

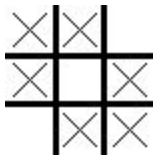


7. 22: The minute hand goes around 24 times and the hour hand goes around twice.  $24 - 2$  is 22.

8.

4	3	8
9	5	1
2	7	6

9.



**No answers for the Ken Ken Puzzles.**